


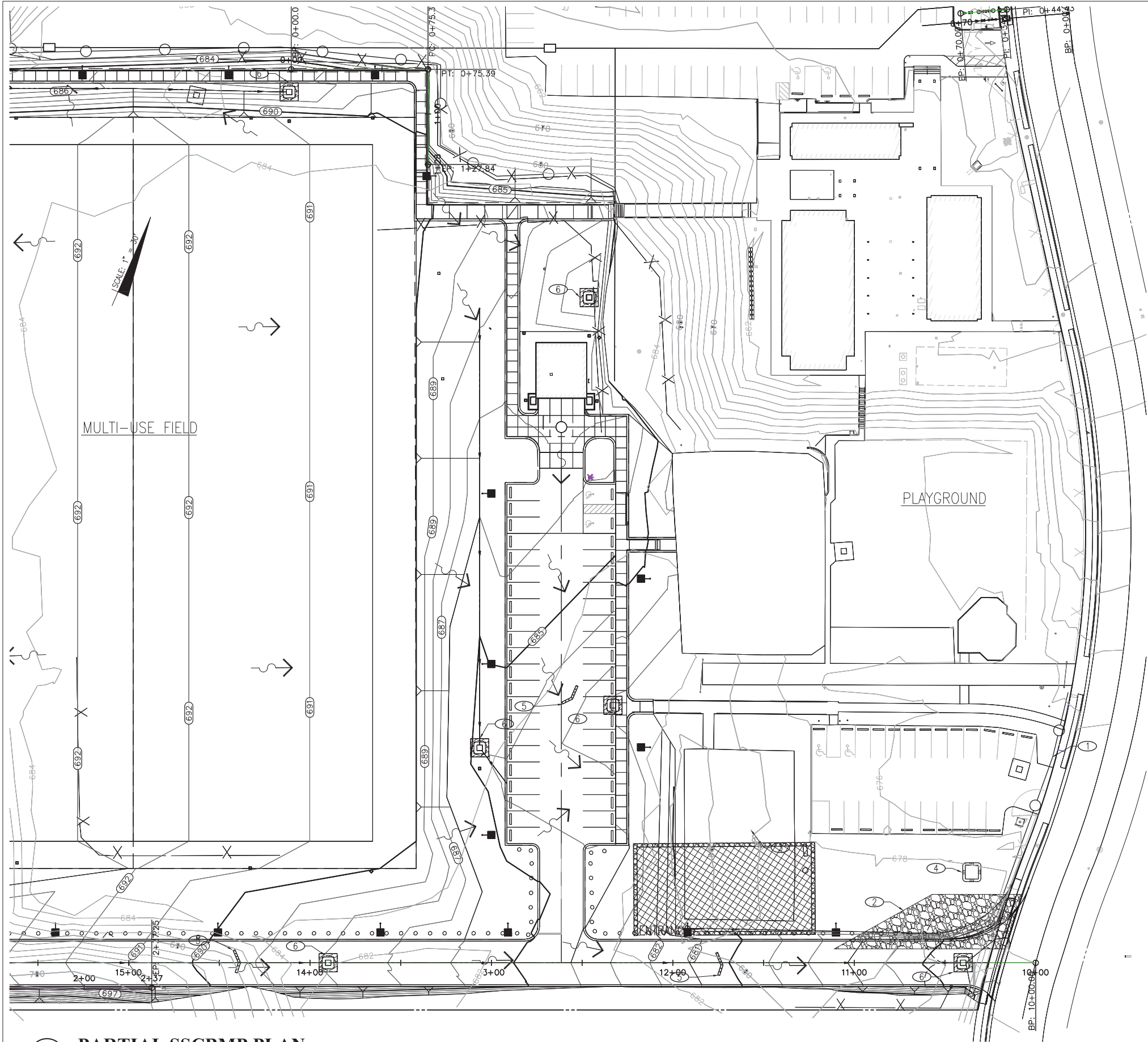


DESIGNED BY: OH	 <p>COUNTY OF HAWAII DEPARTMENT OF PARKS &amp; RECREATION 101 PUUHI STREET, SUITE 6   HILO, HAWAII 96720   PHONE: 808.961.8311   FAX: 808.961.8411</p>	PAHOA PARK MASTER PLAN PHASE I - BID SUBMITTAL 2014-02-10		TMK: (3) 1-5-002:020
DRAWN BY: OH		PAHOA, PUNA, HAWAII		PLAN SHEET DESCRIPTION:
CHECKED BY: YMF		JOB NO.: PR-4234		SCSBP NOTES
SHEET NO. <b>C-500</b>		DATE: 2014-02-10	JOB NO.: PR-4234 PAHOA, PUNA, HAWAII TMK: (3) 1-5-002:020	PLAN SHEET DESCRIPTION: SCSBP NOTES
1 OF 5 SHEETS 		PAHOA PARK MASTER PLAN PHASE I - BID SUBMITTAL 2014-02-10		
COUNTY OF HAWAII DEPARTMENT OF PARKS & RECREATION 101 PUUHI STREET, SUITE 6   HILO, HAWAII 96720   PHONE: 808.961.8311   FAX: 808.961.8411		PAHOA PARK MASTER PLAN PHASE I - BID SUBMITTAL 2014-02-10		
DESIGNED BY: OH DRAWN BY: OH CHECKED BY: YMF		PAHOA PARK MASTER PLAN PHASE I - BID SUBMITTAL 2014-02-10		
SHEET NO. <b>C-500</b>		PAHOA PARK MASTER PLAN PHASE I - BID SUBMITTAL 2014-02-10		
1 OF 5 SHEETS 		PAHOA PARK MASTER PLAN PHASE I - BID SUBMITTAL 2014-02-10		
COUNTY OF HAWAII DEPARTMENT OF PARKS & RECREATION 101 PUUHI STREET, SUITE 6   HILO, HAWAII 96720   PHONE: 808.961.8311   FAX: 808.961.8411		PAHOA PARK MASTER PLAN PHASE I - BID SUBMITTAL 2014-02-10		



**BMP CONSTRUCTION NOTES**

- (ORDER OF PRECEDENCE FOR INSTALLATION)
- 1. CONSTRUCT SILT FENCE PER
  - 2. CONSTRUCT STABILIZED 30' x 50' CONSTRUCTION ENTRANCE AND VEHICLE/EQUIPMENT WASH AREA W/ IMPERMEABLE-LINED BASIN
  - 3. CONSTRUCT GRAVEL BAG FILTERS AROUND STOCK PILE/DEBRIS/VEHICLE/EQUIPMENT STORAGE AREA
  - 4. CONSTRUCT 10"L X 10"W X 2'D CONSTRUCTION EQUIPMENT WASH SEDIMENT BASIN W/ IMPERMEABLE LINER
  - 5. PLACE SEDIMENT WADDLES AT BOTTOM OF CUT SLOPES OR PER PLAN
  - 6. CONSTRUCT BLOCK AND GRAVEL FILTER PROTECTION AT DROP INLETS FOR DRYWELLS
  - 7. PLACE HYDRO-SEED MULCH WITH BONDED FIBER MATRIX AND FERTILIZER.

**LEGEND**

- PAVED AREAS
- NEW CONCRETE
- STABILIZED CONSTRUCTION ENTRANCE AND VEHICLE/EQUIPMENT WASH AREA
- BLOCK AND GRAVEL FILTER AT DROP INLET
- GRAVEL BAG FILTERS
- PROTECTED STOCKPILE, DEBRIS, AND VEHICLE/EQUIPMENT STORAGE AREA
- PLACE HYDRO-SEED MULCH WITH BONDED FIBER MATRIX. SEED MIX SHALL BE 50% BERMUDAS GRASS AND 50% PERENNIAL RYE GRASS OF SELECT PRE-MIXED SEED FORMULA FOR EROSION CONTROL AND SUITABLE FOR LOCAL SOIL AND WEATHER CONDITIONS.
- SILT FENCE
- SEDIMENT WADDLE
- RUNOFF FLOW DIRECTION
- SEDIMENT BASIN W/ IMPERMEABLE LINER

DESIGNED BY: OH  
DRAWN BY: OH  
CHECKED BY: YWF

DATE: 2014-02-10

PLAN SHEET DESCRIPTION:  
PARTIAL SSCBMP PLAN

PAHOA PARK MASTER PLAN  
PHASE I - BID SUBMITTAL 2014-02-10

JOB NO.: PR-4234  
SHEET NO. C-501

COUNTY OF HAWAII  
DEPARTMENT OF PARKS & RECREATION  
101 PALAHU STREET, SUITE 67 HILO, HAWAII 96720 / PHONE: 808.961.8311 / FAX: 808.961.8411

PAHOA, PUNA, HAWAII

TMK: (3) 1-5-002:020

REVIEWED: DATE: DEPARTMENT OF PARKS AND RECREATION

DATE: 5/07/14

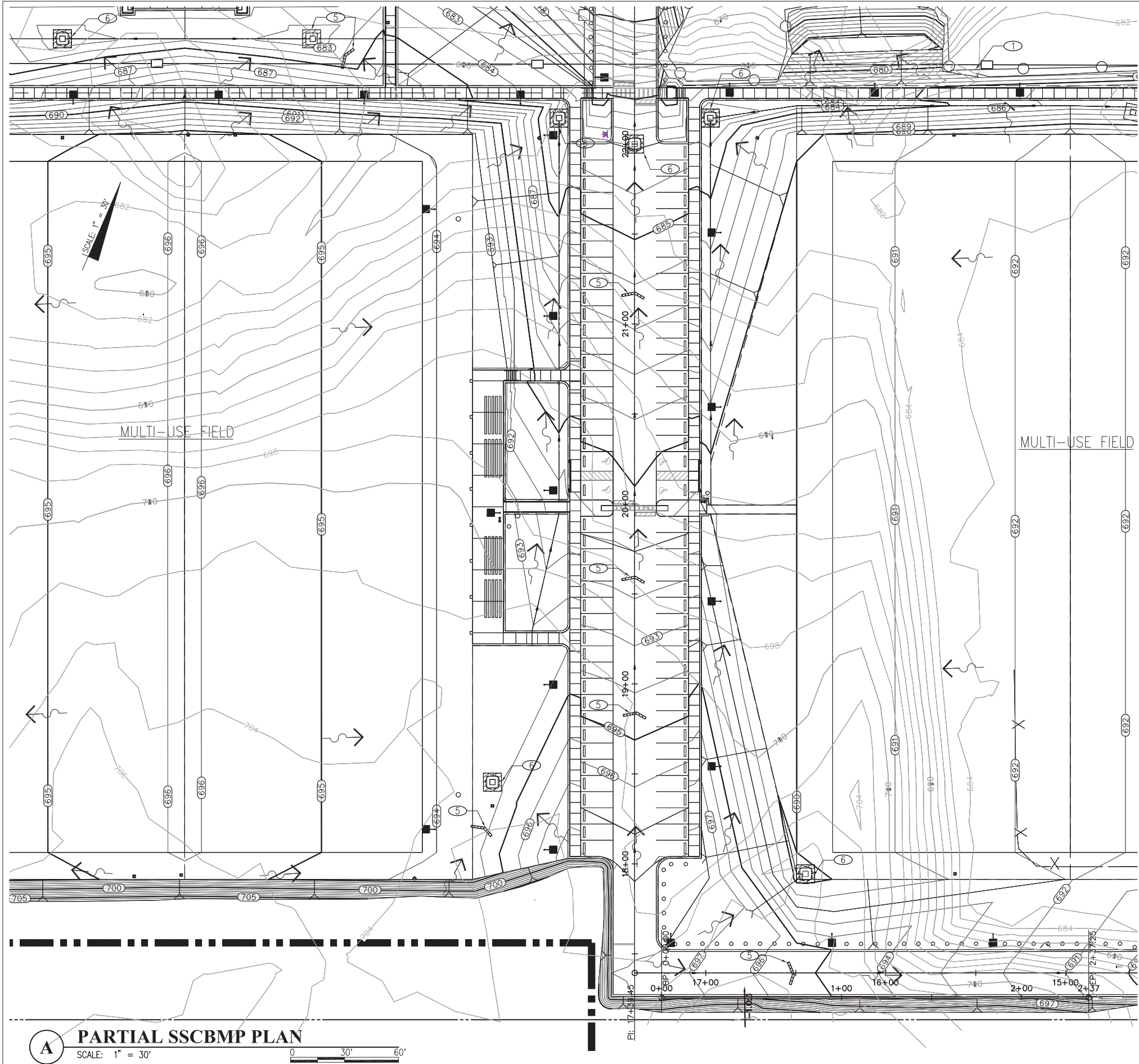
DESCRIPTION: SHEET ADDED

Engineering Partners, Inc.  
Progressive Solutions  
455 ELANIKAULA STREET  
HILO, HAWAII 96720  
www.epintegrated.com

Professional Engineer  
Exp. 04/30/16  
No. 9361-C  
HAWAII, U.S.A.

Signature: [Signature]  
DATE: 5/07/14





**BMP CONSTRUCTION NOTES**

- (ORDER OF PRECEDENCE FOR INSTALLATION)
- 1 CONSTRUCT SILT FENCE PER 4 C-507
  - 2 CONSTRUCT STABILIZED 30' x 50' CONSTRUCTION ENTRANCE AND VEHICLE/EQUIPMENT WASH AREA W/ IMPERMEABLE-LINED BASIN 1 C-507 2 C-507
  - 3 CONSTRUCT GRAVEL BAG FILTERS AROUND STOCK PILE/DEBRIS/VEHICLE/EQUIPMENT STORAGE AREA 6 C-507
  - 4 CONSTRUCT 10'L x 10'W x 2'D CONSTRUCTION EQUIPMENT WASH SEDIMENT BASIN W/ IMPERMEABLE LINER 5 C-507
  - 5 PLACE SEDIMENT WADDLES AT BOTTOM OF CUT SLOPES OR PER PLAN 2 C-507
  - 6 CONSTRUCT BLOCK AND GRAVEL FILTER PROTECTION AT DROP INLETS FOR DRYWELLS 3 C-507
  - 7 PLACE HYDRO-SEED MULCH WITH BONDED FIBER MATRIX AND FERTILIZER.

**LEGEND**

- PAVED AREAS
- NEW CONCRETE
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- SILT FENCE
- SEDIMENT WADDLE
- RUNOFF FLOW DIRECTION
- SEDIMENT BASIN W/ IMPERMEABLE LINER

DESIGNED BY: OH  
DRAWN BY: OH  
CHECKED BY: YWF

DATE: 2014-02-10

SHEET NO. **C-502**  
OF SHEETS

COUNTY OF HAWAII  
DEPARTMENT OF PARKS & RECREATION  
101 PALAHU STREET, SUITE 67 HILLO, HAWAII 96720 / PHONE: 808.961.8311 / FAX: 808.961.8411

**PAHOA PARK MASTER PLAN**  
**PHASE I - BID SUBMITTAL 2014-02-10**  
JOB NO.: PR-4234  
PLAN SHEET DESCRIPTION: PARTIAL SSCBMP PLAN

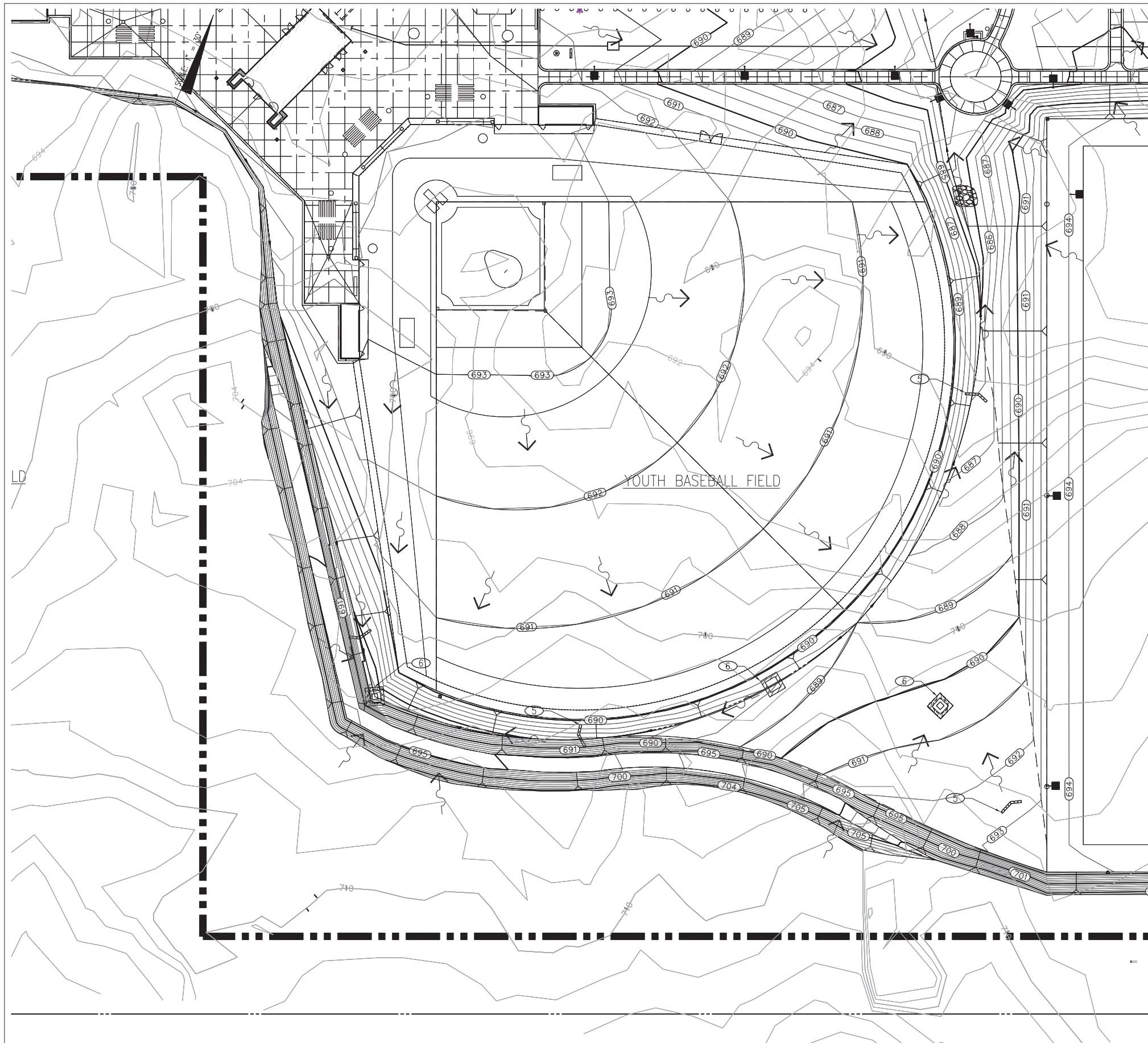
TMK: (3) 1-5-002:020  
PAHOA, PUNA, HAWAII





Engineering Partners, Inc.  
Progressive Solutions  
455 ELANIKULA STREET  
HILO, HAWAII 96720  
www.eptintegrated.com

Signature: *Steven F. King*  
DATE: 5/07/14

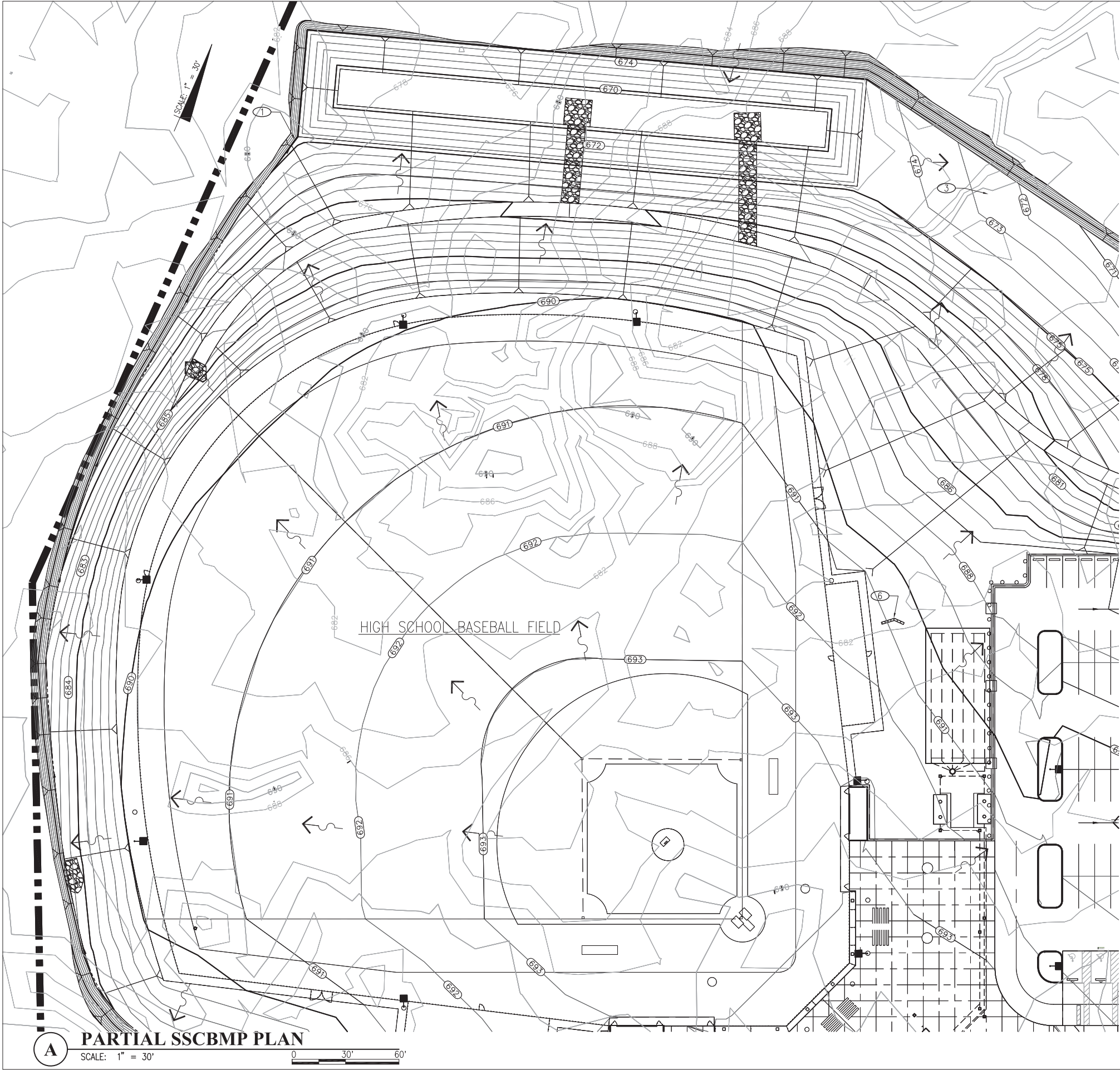
MARK	DATE	DESCRIPTION
Δ	5/07/14	SHEET ADDED

REVIEWED:   
DEPARTMENT OF PARKS AND RECREATION   
DATE:



DESIGNED BY: CH DRAWN BY: CH CHECKED BY: YMF	 <p>           COUNTY OF HAWAII            DEPARTMENT OF PARKS &amp; RECREATION            101 PAUHAH STREET, SUITE 6 / HILO, HAWAII 96720 / PHONE: 808.961.8311 / FAX: 808.961.8411         </p>	<p> <b>PAHOA PARK MASTER PLAN</b>  <b>PHASE I - BID SUBMITTAL 2014-02-10</b> </p>	JOB NO.: PR-4234 PAHOA, PUNA, HAWAII TMK: (3) 1-5-002:020	PLAN SHEET DESCRIPTION: PARTIAL SCOMP PLAN	DATE: 2014-02-10
SHEET NO. <b>C-503</b>	MARK 5/07/14 5/07/14 5/07/14 5/07/14 5/07/14	DATE 5/07/14 5/07/14 5/07/14 5/07/14 5/07/14	DESCRIPTION SHEET ADDED SHEET ADDED SHEET ADDED SHEET ADDED SHEET ADDED	REVIEWED:	DEPARTMENT OF PARKS AND RECREATION DATE
			 SIGNATURE		
 Engineering Partners, Inc.			Progressive Solutions 465 ELANUKULA STREET HILO, HAWAII, 96720 www.epnregatead.com		





- ### BMP CONSTRUCTION NOTES
- (ORDER OF PRECEDENCE FOR INSTALLATION)
- 1 CONSTRUCT SILT FENCE PER 4  
C-507
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C-507
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C-507
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C-507
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C-507
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C-507
  - 7 PLACE HYDRO-SEED MULCH WITH BONDED FIBER MATRIX AND FERTILIZER.

- ### LEGEND
- PAVED AREAS
  - NEW CONCRETE
  - STABILIZED CONSTRUCTION ENTRANCE AND VEHICLE/EQUIPMENT WASH AREA
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  - RUNOFF FLOW DIRECTION
  - SEDIMENT BASIN W/ IMPERMEABLE LINER

DESIGNED BY: OH  
DRAWN BY: OH  
CHECKED BY: YWF

DATE: 2014-02-10

PLAN SHEET DESCRIPTION:  
PARTIAL SSCBMP PLAN

DATE: 2014-02-10

SHEET NO.  
**C-504**

OF SHEETS  
07

COUNTY OF HAWAII  
DEPARTMENT OF PARKS & RECREATION  
101 PALAHU STREET, SUITE 67, HILO, HAWAII 96720 / PHONE: 808.961.8311 / FAX: 808.961.8411

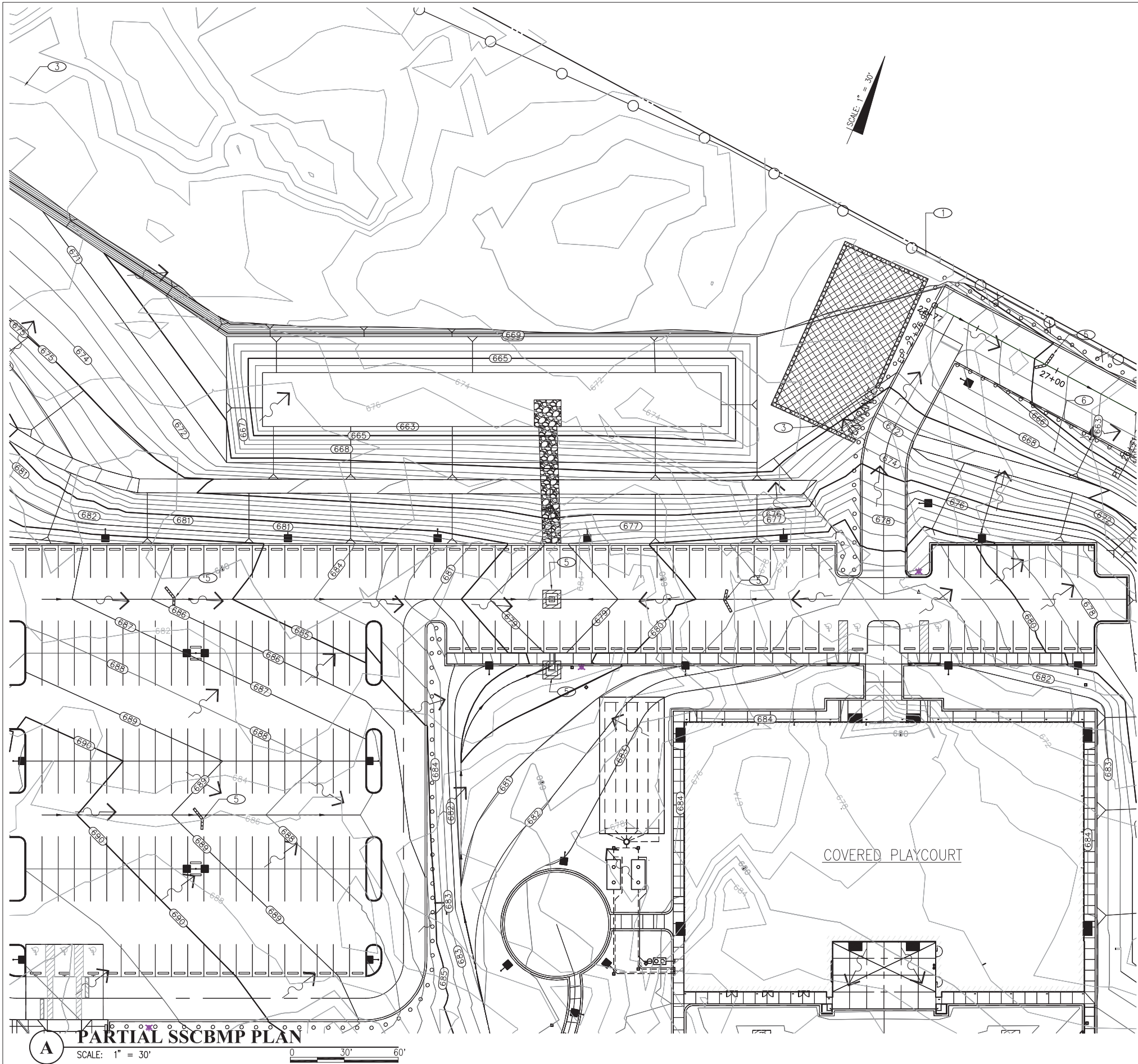
**PAHOA PARK MASTER PLAN**  
**PHASE I - BID SUBMITTAL 2014-02-10**  
JOB NO.: PR-4234  
PAHOA, PUNA, HAWAII  
TMK: (3) 1-5-002:020

REVIEWED:  
DEPARTMENT OF PARKS AND RECREATION  
DATE:

Wen F. Pang  
SIGNATURE

Engineering Partners, Inc.  
Progressive Solutions  
455 ELANIKAULA STREET  
HILO, HAWAII 96720  
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**BMP CONSTRUCTION NOTES**

(ORDER OF PRECEDENCE FOR INSTALLATION)

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DESIGNED BY: OH  
DRAWN BY: OH  
CHECKED BY: YWF

DATE: 2014-02-10

SHEET NO. **C-505**

OF SHEETS

COUNTY OF HAWAII  
DEPARTMENT OF PARKS & RECREATION  
101 PALAHU STREET, SUITE 67 HILO, HAWAII 96720 / PHONE: 808.961.8311 / FAX: 808.961.8411

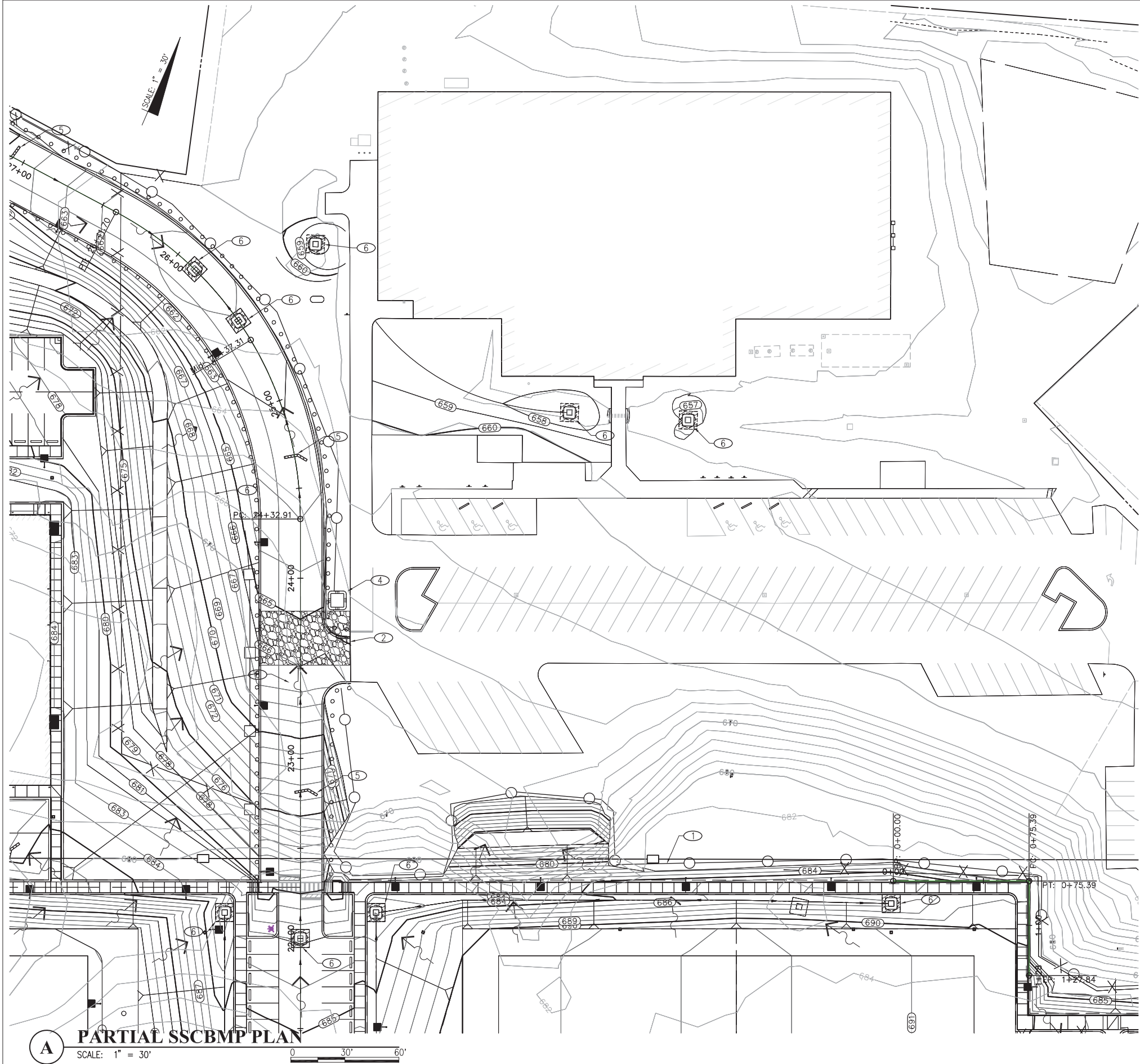
**PAHOA PARK MASTER PLAN**  
**PHASE I - BID SUBMITTAL 2014-02-10**  
JOB NO.: PR-4234  
PLAN SHEET DESCRIPTION: PARTIAL SSCBMP PLAN

TMK: (3) 1-5-002:020  
PAHOA, PUNA, HAWAII

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Progressive Solutions  
455 ELANIKAULA STREET  
HILO, HAWAII 96720  
www.epintegrated.com

Signature: *Steven F. Pang*  
DATE: 5/07/14

REVIEWED: DEPARTMENT OF PARKS AND RECREATION DATE: 5/07/14



## BMP CONSTRUCTION NOTES

(ORDER OF PRECEDENCE FOR INSTALLATION)

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DESIGNED BY: OH  
DRAWN BY: OH  
CHECKED BY: YWF

DATE: 2014-02-10

PLAN SHEET DESCRIPTION: PARTIAL SSCBMP PLAN

REVIEWED: DEPARTMENT OF PARKS AND RECREATION

DATE: 5/07/14


MARK: A

DATE: 5/07/14

SHEET ADDED:

DESCRIPTION:

COUNTY OF HAWAII  
DEPARTMENT OF PARKS & RECREATION  
101 PALAHU STREET, SUITE 67 HILO, HAWAII 96720 / PHONE: 808.961.3311 / FAX: 808.961.8411





PAHOA PARK MASTER PLAN  
PHASE I - BID SUBMITTAL 2014-02-10

JOB NO.: PR-4234  
PAHOA, PUNA, HAWAII

TMK: (3) 1-5-002:020

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Progressive Solutions  
455 ELANIKAULA STREET  
HILO, HAWAII 96720  
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SIGNATURE



C-506

SHEET NO.

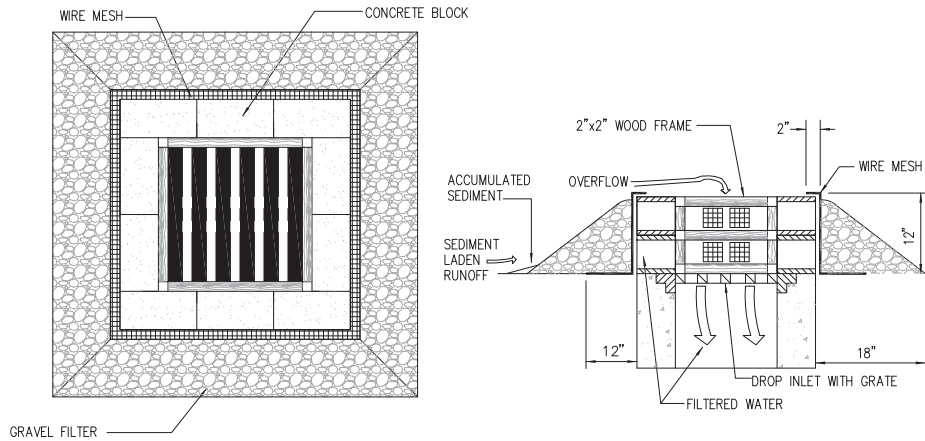
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OF

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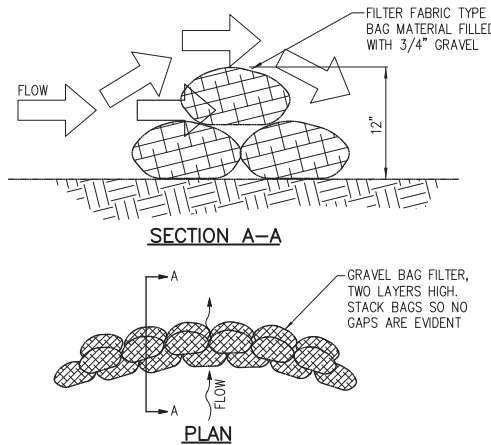




3

### DRYWELL AND GRATED INLET PROTECTION

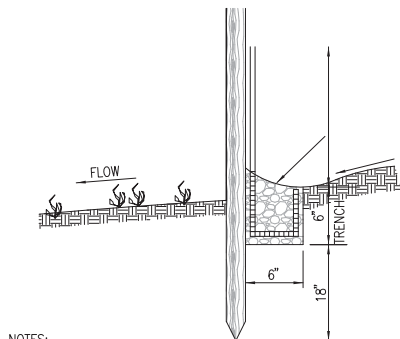
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6

### GRAVEL BAG FILTER DETAIL

NOT TO SCALE

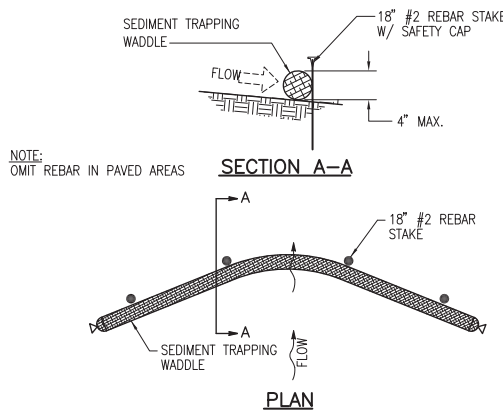


- NOTES:
1. THE FILTER FABRIC SHALL BE A MINIMUM OF 36 INCHES WIDE.
  2. IF SILT FENCE IS OBTAINED FROM MANUFACTURER AS A PACKAGE (I.E. FABRIC ATTACHED TO POST) THE MANUFACTURER'S INSTALLATION INSTRUCTION SHALL BE ADHERED TO.
  3. FENCE STAKES MAY BE WOOD OR METAL, MUST BE CAPABLE OF SUPPORTING ANTICIPATED LOADS.

4

### SILT FENCE DETAIL

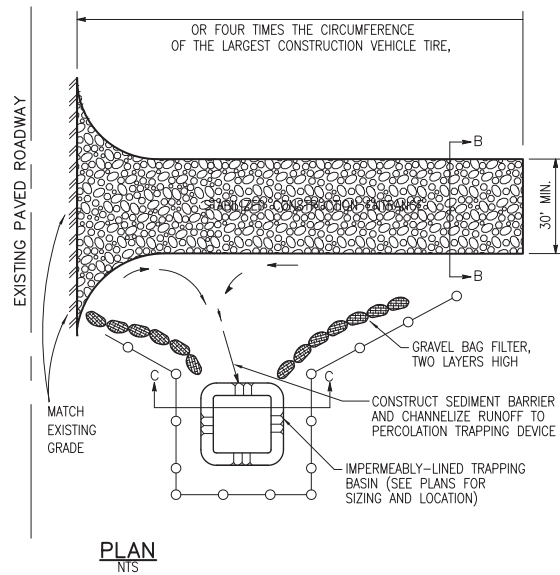
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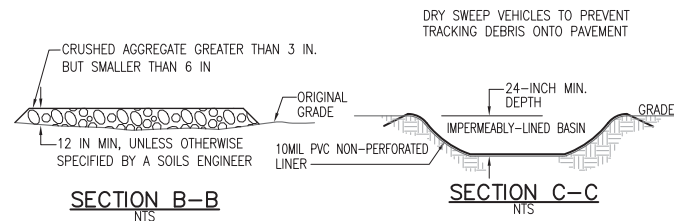
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### STAKED SEDIMENT WADDLE

NOT TO SCALE



PLAN  
NTS



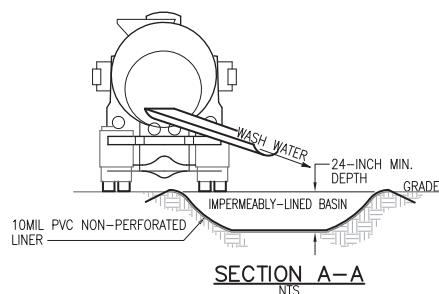
SECTION B-B  
NTS

SECTION C-C  
NTS

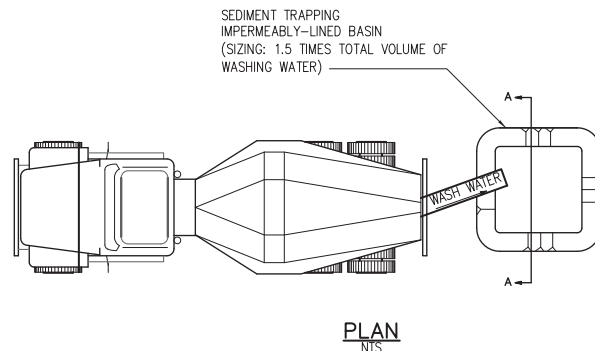
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### STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



SECTION A-A  
NTS



PLAN  
NTS

2

### CONCRETE TRUCK DRUM/CHUTE WASH WATER SEDIMENT BASIN

NOT TO SCALE

- NOTES:
1. LIMIT THE POINTS OF ENTRANCE/EXIT TO THE CONSTRUCTION SITE.
  2. LIMIT SPEED OF VEHICLES TO CONTROL DUST.
  3. PROPERLY GRADE EACH CONSTRUCTION ENTRANCE/EXIT TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
  4. ROUTE RUNOFF FROM STABILIZED ENTRANCES/EXITS THROUGH A SEDIMENT-TRAPPING DEVICE.
  5. DESIGN STABILIZED ENTRANCE/EXIT TO SUPPORT THE HEAVIEST VEHICLES AND EQUIPMENT THAT WILL USE IT.
  6. SELECT CONSTRUCTION ACCESS STABILIZATION (AGGREGATE, ASPHALTIC CONCRETE, CONCRETE) BASED ON LONGEVITY, REQUIRED PERFORMANCE, AND SITE CONDITIONS. THE USE OF ASPHALT CONCRETE (AC) GRINDINGS FOR STABILIZED CONSTRUCTION ACCESS/ROADWAY IS NOT ALLOWED.
  7. USE OF AGGREGATE OR CONSTRUCTED/MANUFACTURED STEEL PLATES WITH RIBS OR THE ALTERNATE WASH RACK DESIGN FOR ENTRANCE / EXIT MAY BE ALLOWED.
  8. IF AGGREGATE IS SELECTED, PLACE CRUSHED AGGREGATE OVER GEOTEXTILE FABRIC TO AT LEAST 300 MM (12 IN) DEPTH.
  9. CRUSHED AGGREGATE GREATER THAN 75 MM (3 INCHES) AND SMALLER THAN 150 MM (6 INCHES) SHALL BE USED.
  10. DESIGNATE COMBINATION OR SINGLE PURPOSE ENTRANCES AND EXITS TO THE CONSTRUCTION SITE.
  11. REQUIRE ALL EMPLOYEES, SUBCONTRACTORS, AND SUPPLIERS TO UTILIZE THE STABILIZED CONSTRUCTION ACCESS.
  12. INSPECT MONTHLY AND AFTER EACH RAINFALL.
  13. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS WITHIN 24 HOURS.
  14. REMOVE GRAVEL AND FILTER FABRIC AT COMPLETION OF CONSTRUCTION.

NOTE:  
IMPERMEABLY-LINED BASIN WILL BE A MINIMUM OF 10'X10'X2'. IMPERMEABLY-LINED BASIN WATER WILL NOT DISCHARGE TO STATE WATERS. DRIP PANS WILL BE PLACED UNDER VEHICLES AND HEAVY EQUIPMENT WHEN NOT IN USE.

VEHICLES WILL BE INSPECTED FOR DRY SWEEPING AT THE CONSTRUCTION ENTRANCE PRIOR TO ENTRY ONTO PAVED ROADS. PURPOSE OF DRY SWEEPING IS TO REMOVE CONSTRUCTION DEBRIS AND SOIL FROM TIRES OR FACILITIES WHICH MAY CONVEY SOIL ONTO SURROUNDING PAVED ROADS. SEDIMENT BARRIERS AND TRAPPING DEVICE WILL BE REQUIRED FOR RAINSTORM INCIDENTS TO PREVENT SOIL DISTURBANCE RUNOFF.

DESIGNED BY: OH  
DRAWN BY: OH  
CHECKED BY: YWF

DATE: 2014-02-10

SHEET NO. C-507  
OF SHEETS

PLAN SHEET DESCRIPTION: SSCOMP DETAILS

COUNTY OF HAWAII  
DEPARTMENT OF PARKS & RECREATION  
101 PALAHU STREET, SUITE 67 HILLO, HAWAII 96720 / PHONE: 808.961.8311 / FAX: 808.961.8411

PAHOA PARK MASTER PLAN  
PHASE I - BID SUBMITTAL 2014-02-10  
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Professional Engineer  
Exp. 04/30/16  
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HAWAII, U.S.A.

Signature: [Signature]  
Date: 5/07/14